

THE MAN AND THE METHOD. Among many interesting and instructive features of the late national horticultural congress at Council Bluffs. la., perhaps none has received greater commendation and publicity than the apple exhibit of a Mr. Mincer of Hamburg, la., a little town located in Fremont, the southwest county of the state. It seems that Mr. Mincer has for several years past had charge of a twenty acre orchard, which for some time previous had been badly neglected On taking charge he began spraying and gave the orchard in other respects the best care be could. East year be attended the horticultural show at Council Bluffs and exhibited a few apples, but they were not up to the standard of the western fruit. However, he kept his eyes open, took notes and pumped the western ranchmen as to just how they produced their fine fruit. He found that it was by giving intensive, painstaking care to a few acres which made improved methods possible. He acted on this suggestion and devoted most of his attention last season to seven acres. When he appeared at the fruit show last November he had an exhibit which was considered by both visitors and judges to be one of the very finest in the ball. He had gained size and col or, while in the packing of his exhibit he had been assisted by a young lady who had had experience in Idaho packing houses. The net result of his efforts was that he was awarded a number of the most valuable prizes and trophies which were put up. On the business side he not only received a high price for the choice apples left after his show stock was selected, but was offered \$3 a box straight for his exhibit fruit. This instance not only points to the immense educational value of these national fruit exhibits in providing a stimulus for better efforts. but shows what is even more important-that after all is said and done it is more the man and his method than it is climate and soil that are the chief determining factors in the attainment of success in the fruit business. This man's achievement should be a source of encouragement to fruit growers in all sections.

PCOR CLAY TILE.

Not long ago there appeared an article in this department warning prospective users of draintile against cement tile improperly made. A friend who is engaged in the manufacture of cement tile in a letter received a short time ago admits the truth and fairness of the article, but thinks it gives the impression that no poor clay tile are made. We are glad to state that this is far from the truth. If the clay body from which the tile is made contains an excess of lime and magnesium or other ingredients aside from the silicon and aluminium compounds. which should largely compose it, they are quite likely to lack uniformity of texture, will be too brittle and are apt to go to pieces when exposed to ordinary soil or air conditions. And it goes without saying that a collapsed clay tile is just as worthy of condemnation and strict avoidance as a shoddy cement tile. As in the case of the cement tile, much will depend upon the integrity and reputation of the firm manufacturing. The only point in favor of the clay tile is that there is not the incentive present to scrimp expense in the cost of manufacture. as is the case with the manufacturer of cement tile in the use of poor sand and in the reduction of the per cent of cement below the proper amount. A tile drain system is no better than the poorest section in it; hence he who has in view such a system of drainage should exercise the greatest caution that the tile used should be above defect or reproach, and this holds true equally of both the burned clay and the cement product.

FAMILY AND MARKET ORCHARDS

For the apple orchard which is to produce fruit for family use only it does very well to set several varieties. | made to weigh almost as much as one which will answer the several pur- of similar breeding, but fed on whole poses for which the fruit is used and milk, with the same kind of grain, at will cover as long a season of con- one year of age. In feeding skimmilk sumption as possible. But if the ap- to calves overfeeding is dangerous and ples are to be grown for the market it must be avoided. The digestive oris by all means best to restrict the gans of calves are more easily derangvarieties set to one or two kinds ed than those of the pig, and care which are known to be prolific and hardy and will fetch a good price at the season when one must market than others, and it is well to study the them. A buyer would always prefer to handle a carload of fruit of uniform quality and one variety than a conglomerate, mixed up assortment, even if the several varieties ripened at the same time, which is rarely the case. also been fed to lambs, horses and We are well aware of the fact that if | colts with success. left to himself many a nurseryman will load his patrons up with just as many varieties-good, bad and indifferent-as he will take, but he ignores the conditions which make the largest success possible when he does so.

Every hog raiser might reduce the cost of pork production materially if he would provide a field of rape of sufficient size for his pigs to range in during the summer months. It is estimated that an acre devoted to rape son worth from \$20 to \$25. It may be a beautiful farm, formerly known sown as soon as the ground works as the Church place. The farm well and at the rate of about three contains between three and four pounds per acre. It should be allowed hundred acres of land-150 acres to get a good start before the pigs are of fine timber, oak and pine, 50 turned into it.

me is a wise farmer who not only el farm land. inspects and tests his seed corn, but also keeps an eye on his congressman down at Washington, for important things will be doing in the next few

## SKIMMILK VALUABLE

Skimmilk is by far the most imporfor many people. The use of skimmilk ought to be encouraged.

Every dairy should be equipped nomical source of animal protein. The food elements in skimmilk are equal meats and are far less expensive.

As an article to substitute for water in the preparation of various dishes in a decided gain in food value. In makweight and nutritive value of the loaf. may be saved to pay for the milk and vet produce a loaf of equal weight and of more actual food value.

Milk bread is richer in fatty matter and superior in flesh forming elements. which is scientifically explained as being due to the casein of milk being in- given when the plants are in growth corporated with the fibrin of the flour. and the pots fairly full of roots. A The sale of skimmilk to bakers and good fertilizer, such as nitrate of soda. confectioners should be encouraged and is capable of being largely in- half an ounce to the gallon and the creased. Used in this manner, it may hundred pounds, or more than a large per cent of the farmers and dai- hausted. Soot water is also very userymen realize for their whole milk.

As a food for domestic animals skimmilk occupies the most conspicuous position of any foodstuff, especially as a | nid manure of animal origin should be feed for young and growing animals. | 2sed very sparingly or not at all. it gives the best returns when fed to very young animals, constituting the larger part of their rations. It is next best for animals making rapid growth, but which need other feed than milk, mainly of a carbonaceous nature. Except for very young animals skimmilk gives the best returns when used in combination with other foods, generally grains. No class of live stock will give larger returns for skimmilk than poultry of various kinds.

If a premium were offered for the most rapid gains in pig feeding my opinion would be that some man skill-



WORKING A HAND SEPARATOR.

ed in feeding skimmilk with other foods would carry off the prize. Skimmilk is rich in bone building and blood making constituents, and when we consider its use for these purposes and also remember its easy digestibility and that by adding a variety it makes other food articles more palatable and assists in their digestion we must hold skimmilk as occupying a high place in the list of foodstuffs available on farms.

Authorities seem to differ as to the merits of sweet and sour milk as a feed for swine. Calves are next in favor as profitable consumers of skimmilk, and some feeders think that they can feed their skimmilk to calves and derive more profit from it than by feeding it to swine, but this depends to a large extent upon the good qualities of the animals being fed.

In feeding skimmilk to calves a cent's worth of oilmeal will take the place of a pound of butter fat that has been removed from the milk, Besides, when the milk is fed warm it is better for the calves than milk that is cold and sour.

A young animal that is fed on skimmilk, with mill feed or grain, may be must be exercised in their feeding. Some calves will take more skimmilk capacity of each calf and fit the amount of milk to suit each animal. Some dairymen feed skimmilk to their cows mixed with grain and find it is of more or less value. It has

Do Not Exercise In Cold. The cow that is making from two to three pounds of butter each day should not be turned out in a yard in the coid to exercise, else her butter yield will

FOR SALE.

The heirs of Eli Crummett, dec'd, will offer at public auction, on

Мау 7тн, 1910, acres of sod, and the rest good lev-

This farm lays on Shaw's Fork, one mile south of Headwaters. Farm is well watered.

ARLIE J. BOTKIN.

PRESERVING FERNS IN WINTER

They Should Be Pieced Where They Artery May Be Found by Placing Hand Get Diffused Light.

Although ferns are greatly admired In general singularly unfortunate in of an elastic tube-the artery-caused best adapted to varied and profitable the treatment they receive at the by the jets of blood pumped into those uses. A prominent dairyman says hands of their owners. It being well vessels by means of a force pump-the that skimmilk as a human food is un- understood that most varieties thrive heart. appreciated by most farmers, but it better when not exposed to strong Each stroke of the heart is equal to has been tested under various condi- sunshine, they are usually relegated one pulsation-viz, a rising and falltions by food experts and has proved to any shady and cold position that ing of the arterial wall. In health the a useful portion of an everyday diet may be otherwise unoccupied in the average number of pulse beats per with a good separator, and farmers ferns do not like the direct rays of the would find city markets for a large sun continually upon them, yet a cer-Skimmilk has all the protein and half their development, and instead of the underside of the jaw. By rolling amount of this valuable byproduct. tain amount of light is necessary for of the full value of the whole milk standing them in corners and other and is in most localities the most ecogive them the full benefit of a window -a northern aspect will do-or, at any in physiological value to those of rate, they should be placed where they get ample diffused light.

as well as for others that are made which they are subjected. The idea mainly of milk there is no waste, but is very prevalent that they do not require manure, and in consequence any ing bread skimmilk will add to the poor soil which comes to hand is used for potting them up. Certainly a soil Used in place of water, sufficient flour beavily manured is not suitable for preciated. In disease - pleurisy - the them, and fresh manure should on no pulse will be found beating about account be used, but a reasonable allowance of leaf mold is, as a rule, upon the stage of the disease, hard, highly beneficial.

To preserve the delicate greenness of the fronds liquid manure may be may be dissolved in the proportion of ferns watered therewith every ten er be made to not the consumer a dollar twelve days. This is especially good where the plants are old or partly exful as a stimulant. It should be perfeetly clear and is best applied alternately with an artificial fertilizer. Liq-

> "De world," said Uncle Eben. "le sumpin' like a lookin' glass-you's g'inter get better results if you smiles dan

TAKING HORSE'S PULSE.

at Underside of Jaw. The pulse is due to an automatic for indoor decorations, the plants are expansion and relaxation in the wall

house. This method of dealing with minute is about thirty-six to forty. the plants invariably ends in disap. The larger the horse the slower or pointment. Although it is true that fewer the number of beats per minute. According to an expert breeder, a

Don't press too firmly nor yet too lightly. The animal must be kept still and quiet. In point of importance Another frequent cause of failure the "character" of the pulse must be ferns is the semi-starvation to the best guide. That is to say, the blood vessel may impress us as feeling

regular or irregular. These are niceties which require practice before they can be fully apeighty times per minute (depending wiry and irregular.

in pulmonary apoplexy it may beating 120 timessper minute.

When properly taken it forms a valnable means of assistance in ascertaining the nature and progress of dis

There seems to be a taste in apple color differing with localities or countries, just as there is a difference in preference for eggs, white or brown, in different cities. The Englishman prefers a yellow apple-the Newtown Pippin-while across the channel in France and Germany the blood red Spitzenburg is the favorite. Such preferences may be due to trivial and almost intangible causes, yet they constitute an important factor in the practical marketing of apples which if you makes faces" -- Washington are shipped from this country to Eu-

to which the preparation is subjected effectively destroys all germ life."

the farmer to settle would seem to be whether the twenty to thirty bushels extra that he will get from planting seed that will grow are worth 75 cents RINGTIM

HOW TUBERCULIN IS MADE. There seems to be an idea in the minds of some that the injection of tuberculin into the system of a cow which does not have tuberculosis may in some mysterious way develop the disease in her. This is a wrong idea. as will be understood from a description of the method of preparing the serum given below, taken from a bullefin recently published by Dr. C. II. Stange of the Iowa Agricultural col-

"A bouillon is prepared with beef or veal infusion containing from 4 to 6 per cent of glycerin. This is placed in flasks and sterllized cheated to a temperature sufficient to kill all living organisms). It is then inoculated with a pure culture of the tubercie bacillus and kept in an inculator at 98 degrees F. #In the course of a few weeks the tubercle bacilli will have formed a coarse granular scum on the surface. The contents of the flask are now poured into a percelain dish and heated until evaporation reduces it to one-teach of its volume. It is then filtered through a porcelain filter. The liquid passing through the filter is tubercuiln. The heat required to concentrate the fluid before filtration is sufficient to kill all bacilli, while the filter removes all the dead bacilli. Tuberculin is therefore the bouilion in which the tubercle bacillus has been grown and contains the toxic material produced by its growth, but the heat

CHEAP SEED CORN. If reports from those parts of the corn belt which were visited by the killing October freeze are to be believed \$10 is about the price which will be paid for seed corn showing an average test of 95 per cent. Buying sect corn at this figure is expensive business, but it comes a long way from being as expensive a proceeding as planting in good soil two dollar seed corn that will test but 50 percent and that is neither good nor strong. In buying seed corn the coming spring h will be well to keep clearly in mind the fact that one bushel of good seed will plant seven acres, which even on the \$10 basis makes the cost of seed per acre but \$1.45. The question for

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